

# NATIONAL SOLAR OBSERVATORY

## Daily Sunspot Data From Automated Analysis

USAF OSPaN 630.315nm image

CLOUDS: Ukn

CONDITION: Good

OBSERVER: *TWH*

Irradiance reduction due to sunspot  
blocking = 0.032% at 630.315nm

**19 Dec 03**  
**16:00:25 UT**

GROUPS: 7

SPOTS: 20

R-NUMBER: 90

TOTAL SPOT AREA: 759  $\mu$

THRESHOLD: 0.92

